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2619 -		Examiner #: /// 4 Date: 9 Serial Number: /0/3/4 Its Format Preferred (circle): PAPER e searches in order of need.					
Include the elected species or structures, k utility of the invention. Define any terms known. Please attach a copy of the cover s	eywords, synonyms, acron that may have a special me heet, pertinent claims, and		the concept or authors, etc, if				
Title of Invention: Health fromoting Congositions Inventors (please provide full names): Youl Clayfon)							
Inventors (please provide full names):	Youl Cl	aufm)					
<u> </u>		1					
Earliest Priority Filing Date:	12/16/2000						
For Sequence Searches Only Please includ appropriate serial number.	le all pertinent information (p	parent, child, divisional, or issued patent number	s) along with the				
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		Jan Delaval Reference Libran Biotechnology & Chemica CM1 1E07 - 703-308- jan.delaval@uspto.go	al t :c				
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STAFF USE ONLY	Type of Search	Vendors and cost where applical	ble				
Searcher:	NA Sequence (#)	STN					
Searcher Phone #:	AA Sequence (#)	Dialog					
Searcher Location:	Structure (#)	Questel/Orbit					
Date Scarcher Picked Up: 9 U OV.	Bibliographic	Dr.Link					
Date Completed: and our	Litigation	Lexis/Nexis					
Searcher Prep & Review Time:	Fulltext	Sequence Systems					
Clerical Prep Time:	Patent Family	WWW/Internet					
Online Time:	Other	Other (specify)					

PTO-1590 (8-01)

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(FILE 'HOME' ENTERED AT 12:05:43 ON 21 SEP 2002) SET COST OFF

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Jan Delaval
     FILE 'HCAPLUS' ENTERED AT 12:05:56 ON 21 SEP 2002
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                E CLAYTON P/AU
                                                                 Biotechnology & Chemical Library
            124 S E3-E11, E13-E16
L1
                                                                    CM1 1E07 - 703-308-4498
                E AVENTIS/PA,CS
                                                                      jan.delaval@uspto.gov
           1417 S E3, E4
L2
                E DE2001-10109798/AP, PRN
              2 S E3, E4
L3
                E EP2000-127644/AP, PRN
              2 S E3, E4
L4
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L5
                E TI AU PA CS TOT
              2 S L3-L5
L6
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              5. S 11103-57-4 OR 50-81-7 OR 1406-16-2 OR 1406-18-4 OR 12001-79-5
L7
              4 S 7235-40-7 OR 127-40-2 OR 502-65-8 OR 144-68-3
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              9 S 7782-49-2 OR 7440-66-6 OR 7440-47-3 OR 7440-50-8 OR 7439-96-5
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              7 S 59-43-8 OR 83-88-5 OR 59-67-6 OR 79-83-4 OR 8059-24-3 OR 59-3
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L12
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          69183 S L7
L13
          92264 S VITAMIN() (A OR C OR D OR "E" OR K)
L14
          92066 S ASCORBIC ACID OR CALCIFEROL OR TOCOPHEROL
L15
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L16
          13916 S L8
L17
          19112 S BETA CAROTENE OR LUTEIN OR LYCOPENE OR ZEAXANTHIN
L18
           3703 S XANTHOPHYLL OR LUCAROTIN
L19
          21533 S L17-L19
L20
L21
          40110 S L10
          51744 S VITAMIN()(B1 OR B2 OR B6 OR B12) OR NIACIN OR FOLIC ACID OR P
L22
          26711 S THIAMIN OR RIBOFLAVIN OR PYRIDOXINE OR COBALAMIN
L23
          15286 S'NICOTINIC ACID
L24
          18791 S THIAMINE OR COBALAMINE
L25
           2300 S CYANOCOBALAMIN#
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L27
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L28
          97600 S L21-L28
L29
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L30
L31
            313 S L30 AND L9
            369 S L30 AND (SELENIUM OR ZINC OR CHROMIUM OR COPPER OR MANGANESE
L32
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L33
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L34
            551 S L31-L34
L35
            182 S L35 AND L11
L36
            191 S L35 AND (BIOTIN OR BETAINE OR INULIN OR FRUCTOSE OR POLYFRUCT
L37
             12 S L35 AND FATTY ACID (L)OMEGA()(3 OR 6)
L38
             17 S L35 AND FATTY ACID (L)N()(3 OR 6)
L39
             O S L35 AND FATTY ACID (L) (N3 OR N6)
L40
             38 S L35 AND (CO Q10 OR COQ10 OR (COENZYME OR CO ENZYME)()(Q10 OR
L41
             14 S L33 AND L12
L42
             18 S L35 AND INSULIN
L43
            221 S L36-L43
L44
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L45
L46
              2 S L6, L45
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211 S L44 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)
L47
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           12 S L47 AND L48
L49
          211 S L47, L49
L50
            2 S L46 AND L50
L51
            62 S L50 AND FFD/RL
L52
          100 S L50 AND THU/RL
L53
          192 S L50 AND (1 OR 63 OR 17 OR 18)/SC, SX
L54
          192 S L52-L54
L55
          142 S L55 AND P/DT
L56
           50 S L55 NOT L56
L57
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L58
L59
            8 S L56 AND (SMOKING OR GINSENG OR CHINESE OR GRIT OR RESPIRATORY
            7 S L59 NOT METHIONINE/TI
L60
            9 S L60,L51
L61
             9 S L61 AND L1-L6, L13-L59
L62
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=> fil hcaplus

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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```
L62 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2002 ACS
AN
    2002:465733 HCAPLUS
DN
    137:37656
    Health promoting composition containing vitamins
ΤI
    Clayton, Paul
    Aventis Pharma Deutschland G.m.b.H., Germany
PA
SO
    PCT Int. Appl., 43 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
    ICM A23L0'01-30
IC
    63-6 (Pharmaceuticals)
CC
    Section cross-reference(s): 17
FAN.CNT 2
                  KIND DATE
    PATENT NO.
                                        APPLICATION NO. DATE
```

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PΙ
    WO 2002047493
                            20020620
                                           WO 2001-EP14260 20011205 <--
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             HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
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             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                           EP 2000-127644
    EP 1214893
                       Α1
                            20020619
                                                           20001216 <--
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                           DE 2001-10109798 20010301 <--
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                       Α1
                            20020912
PRAI EP 2000-127644
                       Α
                            20001216
                                      <--
                                      <--
    DE 2001-10109798 A
                            20010301
AB
    The invention refers to several compns. promoting human health comprising
    one or several but no all of the following compds. a) 800 mcg (2664IU) of
    vitamin A, 500 mg of vitamin
    C, 15 mcg of vitamin D, 265 mg
     (400IU) of vitamin E, 50 mcg of vitamin
    K, b) 10 mg of .beta.-carotene,
    6 mg of lutein, 5mg of lycopene, 100
    mcg of zeaxanthin, c) 7.5 mg of vitamin
    B1, 7.5 mg of vitamin B2, 15
    mg of niacin, 15 mg of pantothenic
    acid, 7.5 mg of vitamin B6, 200 mcg
    of folic acid, 6.75 mcg of vitamin
    B12, d) 150 mcg of selenium, 10 mg of
    zinc, 100 mg of calcium, 50 mg of
    magnesium, 120 mcg of chromium, 2 mg of
    copper, 4 mg of manganese, 100 mcg of
    iodine, 100 mcg of molybdenum, e) 200 mcg of
    biotin, 450 mg of betaine, 100 mg of
    oligoproanthocyanidins (OPC), 150 mg of
    Polyphenol complex, 40 mg of Isofloavones in
    particular genistein and/or daidzein, 600 mg
    of Omega 3, 4 g of Oligonsaccharides (FOS)
    in particular inulin, and/or oligo-fructose and/or
    beta glucan, 30-60 mg of Co-
    Q10, f) 500 mg of glucosamine and possibly
    addnl. substances for the purpose of stabilization and formulation.
ST
    health promoting compn vitamin
IT
    Antiasthmatics
    Antidiabetic agents
    Mental disorder
        (health promoting compn. contg. vitamins)
ΙT
    Oligosaccharides, biological studies
    Vitamins
    RL: FFD (Food or feed use); THU (Therapeutic use);
    BIOL (Biological study); USES (Uses)
        (health promoting compn. contg. vitamins)
IT
    Flavones
    RL: FFD (Food or feed use); THU (Therapeutic use);
    BIOL (Biological study); USES (Uses)
        (isoflavones; health promoting compn. contg. vitamins)
IT
    Proanthocyanidins
    RL: FFD (Food or feed use); THU (Therapeutic use);
    BIOL (Biological study); USES (Uses)
        (polymers; health promoting compn. contg. vitamins)
ΙT
    Phenols, biological studies
    RL: FFD (Food or feed use); THU (Therapeutic use);
    BIOL (Biological study); USES (Uses)
```

```
(polyphenols, nonpolymeric; health promoting compn. contq. vitamins)
IT
     Fatty acids, biological studies
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (polyunsatd., n-3; health promoting compn. contg.
        vitamins)
     Fatty acids, biological studies
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (polyunsatd., omega-6; health promoting compn.
        contg. vitamins)
ΙT
     Diet
        (supplements; health promoting compn. contg. vitamins)
     50-81-7, Vitamin c, biological studies
IT
     58-85-5, Biotin 59-30-3, Folic
     acid, biological studies 59-43-8, Vitamin
     b1, biological studies 59-67-6, Niacin,
     biological studies 68-19-9, Vitamin b12
     79-83-4, Pantothenic acid 83-88-5,
     Vitamin b2, biological studies 107-43-7,
     Betaine 127-40-2, Lutein 144-68-3,
     Zeaxanthin 303-98-0, Coenzyme q10
     446-72-0, Genistein 486-66-8, Daidzein
     502-65-8, Lycopene 1406-18-4, Vitamin
     e 3416-24-8, D-Glucosamine 7235-40-7
     , .beta.-Carotene 7439-96-5,
     Manganese, biological studies 7439-98-7,
     Molybdenum, biological studies 7440-47-3,
     Chromium, biological studies 7440-50-8, Copper
     , biological studies 7440-66-6, Zinc, biological
     studies 7553-56-2, Iodine, biological studies
     7782-49-2, Selenium, biological studies
     8059-24-3, Vitamin b6 9041-22-9,
     .beta.-Glucan 11103-57-4, Vitamin
     a 12001-79-5, Vitamin k
     25702-76-5, Polyfructose
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (health promoting compn. contg. vitamins)
ΙT
     9004-10-8, Insulin, biological studies
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (health promoting compn. contg. vitamins)
    ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2002 ACS
L62
AN
     2002:462447 HCAPLUS
DN
     137:11020
TI
     Health promoting compositions
ΙN
     Clayton, Paul
PΑ
     Aventis Pharma Deutschland G.m.b.H., Germany
SO
     Eur. Pat. Appl., 18 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     English
IC
     ICM A23L001-30
     ICS A61K035-78
CC
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 18
FAN.CNT 2
                   ' KIND DATE
                                          APPLICATION NO.
                                                           DATE
     PATENT NO.
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                                          _____
                                                           _____
                                     EP 2000-127644 20001216 <--
     EP 1214893
                     A1 20020619
PΙ
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
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     WO 2002047493
                       Α2
                                           WO 2001-EP14260 20011205 <--
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
             HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
             UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
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PRAI EP 2000-127644
                            20001216 <--
     DE 2001-10109798 A
                            20010301
                                     <--
AΒ
    The invention refers to several compns. promoting human health comprising
    one or several but not all of the following compds.: (a) 800 mcg (2664 IU)
    of vitamin A, 500 mg of vitamin
    C, 15 mcg of vitamin D, 265 mg (400
     IU) of vitamin E, 50 mcg of vitamin
    K, (b) 10 mg of .beta.-carotene,
     6 mg of lutein, 5 mg of
    lycopene, 100 mcg of zeaxanthin, (c) 7.5 mg of
    vitamin B1, 7.5 mg of vitamin
    B2, 15 mg of niacin, 15 mg of
    pantothenic acid, 7.5 mg of vitamin
    B6, 200 mcg of folic acid, 6.75 mcg
    of vitamin B12, (d) 150 mcg of selenium, 10
    mg of Zn, 100 mg of Ca, 50
    mg of Mg, 120 mcg of Cr, 2 mg of
    Cu, 4 mg of Mn, 100 mcg of I, 100
    mcg of molybdenum, (e) 200 mcg of biotin, 450
    mg of betaine, 100 mg of
    oligoproanthocyanidins, 150 mg of polyphenol
    complex, 40 mg of isoflavones in particular
    genistein and/or daidzein, 600 mg of
    omega 3 and 6, 4 g of oligosaccharides
    in particular inulin, and/or oligo-fructose and/or
    beta glucan, 30-60 mg of Co-
    Q10, (f) 500 mg of glucosamine, and possibly
    substances for the purpose of stabilization and formulation.
ST
    health promoting compn vitamin trace element
ΙT
    Oligosaccharides, biological studies
    Vitamins
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (health promoting compns. contg.)
ΙT
    Drug delivery systems
        (health promoting compns. in)
IT
    Proanthocyanidins
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (oligo-; health promoting compns. contg.)
IT
    Phenols, biological studies
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (polyphenols, nonpolymeric; health promoting compns. contg.)
IT
    50-81-7, Vitamin C, biological studies
    57-48-7D, Fructose, oligo- 58-85-5,
    Biotin 59-30-3, Folic acid,
    biological studies 59-43-8, Vitamin B1,
    biological studies 59-67-6, Niacin, biological studies
    68-19-9, Vitamin B12 83-88-5,
    Vitamin B2, biological studies 107-43-7,
    Betaine 127-40-2, Lutein 144-68-3,
    Zeaxanthin 486-66-8, Daidzein 502-65-8
      Lycopene 1406-16-2, Vitamin D
    1406-18-4, Vitamin E 7235-40-7,
     .beta.-Carotene 7439-95-4, Magnesium
```

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, biological studies 7439-96-5, Manganese, biological
     studies 7439-98-7, Molybdenum, biological studies
     7440-47-3, Chromium, biological studies
     7440-50-8, Copper, biological studies 7440-66-6
     , Zinc, biological studies 7440-70-2, Calcium
     , biological studies 7553-56-2, Iodine, biological
     studies 7782-49-2, Selenium, biological studies
     8059-24-3, Vitamin B6 9005-80-5,
     Inulin 9041-22-9, .beta.-Glucan
     11103-57-4, Vitamin A 12001-79-5,
     Vitamin K
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (health promoting compns. contg.)
              THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) Kosbab, J; WO 9833494 A 1998 HCAPLUS
(2) Melegari, P; WO 0053176 A 2000 HCAPLUS
(3) Rodney, C; WO 9900135 A 1999 HCAPLUS
(4) Walsh Leo; US 6139872 A 2000 HCAPLUS
     ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2002 ACS
L62
     2002:240508 HCAPLUS
ΑN
DN
     136:262297
ΤI
     Antioxidant vitamin-containing food supplement for prevention or treatment
     of respiratory disease
IN
     Harris, Patricia
PA
     Mars UK Limited, UK
SO
     PCT Int. Appl., 53 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
IC
     ICM A23K001-16
     ICS A23K001-165; A23K001-175
     17-6 (Food and Feed Chemistry)
CC
     Section cross-reference(s): 18, 63
FAN.CNT 1
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     PATENT NO.
                                            APPLICATION NO.
                                                              DATE
                                            _____
     _____
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                           20/02/0328
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     WO 2002024002
                       A2
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
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PRAI GB 2000-23354
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     GB 2001-16048
                       Α
                             20010629
     WO 2001-GB4230
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                            20010921
     The present invention provides a food supplement and method for aiding in
AΒ
     the prevention or treatment of a respiratory disease. The present
     invention further provides the food or food supplement as an ergogenic
            The food or food supplement of the present invention comprises one
     or more antioxidant vitamins in combination with one or more of eugenol,
     selenium, a carotenoid, a flavonoid, a phytoestrogen, a
     proanthocyanidin, a herbal phenolic compd. or ubiquinone.
ST
     food drug additive antioxidant vitamin spice respiratory disease;
     oxidative damage lung food drug additive antioxidant vitamin
IT
     Beet
```

```
(Swiss chard; antioxidant vitamin-contg. food supplement for prevention
        or treatment of respiratory disease)
     Brewers' yeast
TΤ
     Broccoli
     Brussels sprout
     Cabbage
     Cauliflower
     Clove (Syzygium aromaticum)
     Drug delivery systems
     Energy metabolism, animal
     Food additives
     Garlic (Allium sativum)
     Horse (Equus caballus)
     Kale
     Licorice (Glycyrrhiza)
     Lung, disease
     Oxidative stress, biological
     Rosemary
     Spices
     Spinach (Spinacia oleracea)
        (antioxidant vitamin-contg. food supplement for prevention or treatment
        of respiratory disease)
     Carotenes, biological studies
     Flavonoids
     Palm oil
       Proanthocyanidins
     Trace elements, biological studies
     Ubiquinones
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (antioxidant vitamin-contg. food supplement for prevention or treatment
        of respiratory disease)
IT
     Vitamins
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (antioxidant; antioxidant vitamin-contg. food supplement for prevention
        or treatment of respiratory disease)
     Lung, disease
IT
        (chronic obstructive; antioxidant vitamin-contg. food supplement for
        prevention or treatment of respiratory disease)
IT
     Respiratory tract
        (disease; antioxidant vitamin-contg. food supplement for prevention or
        treatment of respiratory disease)
     Fats and Glyceridic oils, biological studies
IT
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (grape seed; antioxidant vitamin-contg. food supplement for prevention
        or treatment of respiratory disease)
     Phenols, biological studies
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (herbal; antioxidant vitamin-contg. food supplement for prevention or
        treatment of respiratory disease)
ΙT
     Lung, disease
        (inflammation; antioxidant vitamin-contg. food supplement for
        prevention or treatment of respiratory disease)
ΙT
        (nutmeg; antioxidant vitamin-contg. food supplement for prevention or
        treatment of respiratory disease)
ΙT
     Estrogens
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (phytoestrogens; antioxidant vitamin-contg. food supplement for
```

```
prevention or treatment of respiratory disease)
IT
     50-81-7, Vitamin C, biological studies
                                         59-02-9, .alpha.-
     58-95-7, .alpha.-Tocopherol acetate
    Tocopherol 59-30-3, Folic acid,
    biological studies 59-43-8, Thiamin, biological
     studies 68-19-9, Vitamin B12 79-83-4
     , Pantothenic acid 83-88-5,
    Riboflavin, biological studies 97-53-0, Eugenol 137-66-6,
    Ascorbyl palmitate 1406-18-4, Vitamin E
    7235-40-7, .beta.-Carotene 7439-89-6, Iron,
    biological studies 7439-95-4, Magnesium, biological
     studies 7439-96-5, Manganese, biological studies
    7440-50-8, Copper, biological studies 7440-70-2
     , Calcium, biological studies 7782-49-2,
    Selenium, biological studies 8059-24-3, Vitamin
         10102-18-8, Sodium selenite 12001-76-2, Vitamin B
    13410-01-0, Sodium selenate 152443-97-5, Stay-C
    RL: FFD (Food or feed use); THU (Therapeutic use);
    BIOL (Biological study); USES (Uses)
        (antioxidant vitamin-contg. food supplement for prevention or treatment
       of respiratory disease)
L62
    ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2002 ACS
    2002:10980 HCAPLUS
AN
DN
    136:74665
    Nutritional system for nervous system disorders
ΤI
    Foreman, David J.
ΙN
PΑ
SO
    U.S. Pat. Appl. Publ., 6 pp.
    CODEN: USXXCO
DT
    Patent
    English
LA
IC
    ICM A61K045-00
     ICS A61K031-715; A61K035-80; A61K035-78
NCL
    424093300
    63-6 (Pharmaceuticals)
    Section cross-reference(s): 17
FAN.CNT 1
                 KIND DATE 🦯
    PATENT NO.
                                         APPLICATION NO. DATE
     _____
                                         _____
                    A1 20020103\
    US 2002001575
                                         US 2001-865040 20010524 <--
PRAI US 2000-207665P P 20000526 <--
    A novel compn. for treating nervous system disorders. The compn. is
    formed by prepg. a mixt. comprising an effective amt. of vitamin
    B-6, folic acid, vitamin
    C, magnesium, vitamin B-3, copper, probiotics,
    fructo-oligosaccharide (FOS), betaine, pancreatin,
    papain, pepsin, vitamin B-1, vitamin
    B-2, vitamin B-12,
    biotin, pantothenic acid, chromium
    polynicotinate and a digestive support ingredient selected from the group
    consisting of dandelion root, juniper, aloe vera, burdock, ginger root,
     artichoke, and kelp. Other ingredients may include: beta
    carotene, vitamin E, selenium,
     zinc, sea vegetation, alfalfa, trace minerals and
    molybdenum.
ST
    nutrient soln nervous system disorder
ΙT
    Ginseng (Panax)
        (Siberian; nutritional system for nervous system disorders)
ΙT
     Barberry (Berberis)
     Elm (Ulmus)
        (bark; nutritional system for nervous system disorders)
ΙT
     Caulophyllum thalictroides
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```
(blue cohosh; nutritional system for nervous system disorders)
ΙT
     Eupatorium perfoliatum
        (boneset; nutritional system for nervous system disorders)
IT
     Nervous system
        (disease; nutritional system for nervous system disorders)
IT
    Rose (Rosa)
        (hips; nutritional system for nervous system disorders)
    Alfalfa (Medicago sativa)
IT
    Aloe barbadensis
    Artichoke (Cynara scolymus)
    Burdock
    Capsicum
    Centella asiatica
     Chamomile
     Chrysanthemum parthenium
     Clover (Trifolium pratense)
       Ginkgo biloba
    Hop (Humulus)
     Juniper (Juniperus)
    Nutrients
     Parsley (Petroselinum crispum)
     Peppermint (Mentha piperita)
     Pollen
     Rubus idaeus
    Ruscus aculeatus
    Seaweed
    Spirulina
        (nutritional system for nervous system disorders)
ΙT
    Fructooligosaccharides
    Vitamins
    RL: FFD (Food or feed use); THU (Therapeutic use);
    BIOL (Biological study); USES (Uses)
        (nutritional system for nervous system disorders)
ΙT
     Intestinal bacteria
        (probiotic; nutritional system for nervous system disorders)
ΙT
    Asparagus
     Dandelion
    Ginger
    Hydrangea
        (root; nutritional system for nervous system disorders)
ΙT
     Drug delivery systems
        (solns.; nutritional system for nervous system disorders)
ΙT
    Rumex crispus
        (yellow dock; nutritional system for nervous system disorders)
     50-81-7, Vitamin c, biological studies
ΙT
    58-85-5, Biotin 59-30-3, Folic
    acid, biological studies 59-43-8, Vitamin
    b1, biological studies 59-67-6D, Nicotinic
    acid, polymers 68-19-9, Vitamin b12
     79-83-4, Vitamin b3 83-88-5, Vitamin
                              98-92-0, Vitamin b3 107-43-7,
    b2, biological studies
              590-46-5, Betaine hydrochloride
    Betaine
    1406-18-4, Vitamin e 7235-40-7,
     .beta.-Carotene 7439-95-4, Magnesium
     , biological studies 7439-98-7, Molybdenum, biological
     studies 7440-47-3, Chromium, biological studies
     7440-50-8, Copper, biological studies 7440-66-6
     , Zinc, biological studies 7782-49-2, Selenium
                           8049-47-6, Pancreatin 8059-24-3,
     , biological studies
    Vitamin b6
                  9001-73-4, Papain
                                      9001-75-6, Pepsin
     RL: FFD (Food or feed use); THU (Therapeutic use);
     BIOL (Biological study); USES (Uses)
        (nutritional system for nervous system disorders)
```

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L62 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2002 ACS
AN
     2001:526346 HCAPLUS
     135:91887
DN
     Modified oat and corn grit products and method
ΤI
     Hansa, James D.; Hibbs, Alice H.; Salisbury, Donald Kent
IN
PA
     U.S. Pat. Appl. Publ., 16 pp., Division of U.S. Ser. No. 487,036.
SO
     CODEN: USXXCO
DT
     Patent
```

LA English

ICM A23L001-36 TC ICS A23L001-27

426093000 NCL

CC 17-11 (Food and Feed Chemistry)

FAN.CNT 1

PATENI	r no. F	KIND	DATE		DIGITION NO.	DATE	
		A1 A2	20010719	US	2000-738450	20001215 20001215 20010119	<

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

<--PRAI US 2000-487036 A3 20000119

A coated, uncooked oat product is provided that has no added fat and comprises uncooked oat flakes having a coating adherent to the oat flakes. A coated, oat flake agglomerate is also provided, wherein each agglomerate comprises at least two uncooked oat flakes and has a fat-free coating. A flavored, coated oat product in bulk and a flavored, coated, agglomerated oat product are provided, both of which have flavors uniformly distributed throughout the bulk. Corn grit products are also provided and include (1) individual pieces of corn grits having a fat-free coating and (2) clusters of corn grit pieces having a fat-free coating. A method of coating uncooked oat flakes with a desired fat-free coating to form the coated, uncooked oat product is also provided. The method involves feeding uncooked oat flakes into a circulating drum, coating the oat flakes by spraying the oat flakes with a stream of coating material, drying the coated oat flakes until the oat flakes have attained the desired moisture content, and cooling the coated oat flakes. Also provided is a method of forming uncooked oat flake agglomerates having a fat-free coating. method involves essentially the same steps as the aforedescribed method. However, in the coating step of this method, the coating material sprayed onto the oat flakes comprises a binding material that allows the oat flakes to form agglomerates of at least two oat flakes. Also provided is a method of prepg. the desired coating material.

ST oatmeal corn grit coating agglomeration

IT Flavor

> (brown sugar; modified uncooked oat flake and corn grit products and method of manuf.)

IT Flavoring materials

> (butter flavor; modified uncooked oat flake and corn grit products and method of manuf.)

ΙT

(changes; modified uncooked oat flake and corn grit products and method of manuf.)

ΙT

(convective; modified uncooked oat flake and corn grit products and method of manuf.)

ΙT

(drum; modified uncooked oat flake and corn grit products and method of manuf.)

Echinacea TT

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Ginkgo biloba
    St.-John's-wort (Hypericum)
        (ext.; modified uncooked oat flake and corn grit products and method of
       manuf.)
ΙT
    Oatmeal
        (fat-free coated flavored; modified uncooked oat flake and corn grit
       products and method of manuf.)
IT
        (fluidized-bed; modified uncooked oat flake and corn grit products and
       method of manuf.)
IT
        (grits, fat-free coated; modified uncooked oat flake and corn grit
        products and method of manuf.)
ΙT
    Pollen
        (honeybee; modified uncooked oat flake and corn grit products and
        method of manuf.)
    Syrups (sweetening agents)
ΙT
        (hydrolyzed starch; modified uncooked oat flake and corn grit products
        and method of manuf.)
IT
    Flavor
        (maple; modified uncooked oat flake and corn grit products and method
        of manuf.)
IT
    Agglomeration
    Binders
   -Breakfast cereal
    Coating process
    Coloring materials
    Flavoring materials
    Food processing
    Fruit and vegetable juices
    Ginseng (Panax)
    Honey
    Hydrocolloids
    Molasses
    Nutrients
    Sweetening agents
        (modified uncooked oat flake and corn grit products and method of
ΙT
    Mineral elements, biological studies
    RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
        (modified uncooked oat flake and corn grit products and method of
        manuf.)
IT
     Food
        (snack; modified uncooked oat flake and corn grit products and method
        of manuf.)
    50-81-7, vitamin C, biological studies
IT
    57-48-7, D-Fructose, biological studies
                                               57-50-1,
    Sucrose, biological studies 59-30-3, Folic
    acid, biological studies 59-43-8, Thiamin,
    biological studies 59-67-6, Niacin, biological studies
     68-19-9, vitamin B12 83-88-5,
    Riboflavin, biological studies 1406-16-2,
    vitamin D 1406-18-4, vitamin
    E 7235-40-7, .beta.-Carotene
    7439-89-6, Iron, biological studies 7439-95-4, Magnesium
     , biological studies 7439-96-5, Manganese, biological
     studies 7439-98-7, Molybdenum, biological studies
    7440-09-7, Potassium, biological studies 7440-50-8,
    Copper, biological studies 7440-66-6, Zinc,
    biological studies 7440-70-2, Calcium, biological
               7723-14-0, Phosphorus, biological studies 7782-49-2,
     studies
     Selenium, biological studies 8059-24-3, vitamin
          9050-36-6, Maltodextrin 11103-57-4, Provitamin A
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ΑN DN

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Bakery products

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses) (modified uncooked oat flake and corn grit products and method of manuf.) L62 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2002 ACS 2000:198416 HCAPLUS 132:212684 Preparations containing vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases Bloor, Stephen; Bloor, Andrea; Grady, Michael; Grady, Amanda Brit. UK Pat. Appl., 20 pp. CODEN: BAXXDU Patent English ICM A61K009-00 ICS A23L001-302; A23L001-304; A61K009-68; A61K033-00 63-6 (Pharmaceuticals) Section cross-reference(s): 17, 62 FAN.CNT 1 APPLICATION NO. DATE PATENT NO. KIND DATE _____ -----GB 2337933 A1 19991208 GB 1998-11908 19980604 <--This invention relates to confectionery and other edible prepn. such as chewing gum, sweets or tablets fortified with a proportion of the recommended daily allowance of dietary supplements or other beneficial substances, esp. vitamins, minerals and antioxidants. One such form of the prepn. may be a breath freshener taken prior to, during or after smoking tobacco. This will ensure that a habit of assocn. will be formed, linking the use of the prepn. with the habit of smoking. This may have th effect of ensuring or encouraging use of the prepn. on a regular basis thereby providing and enhanced or more balanced diet. A chewing gum contained vitamin E 2, vitamin C 12, zinc 0.75, beta carotene 1 mg, vitamin B12 50, riboflavin 80, folic acid 20, manganese 75, copper 25, and selenium 10 .mu.g. vitamin mineral antioxidant prophylaxis smoking disease Drug delivery systems (aerosols; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) Bakery products (biscuits; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) Deodorants (personal) (breath fresheners; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) Bakery products (cakes; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) Drug delivery systems (capsules; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) Bakery products (cookies; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) Periodontium (disease; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) Drug delivery systems

(lozenges; prepns. contg. vitamins, minerals and antioxidants for

treating or prophylaxis of smoking related diseases)

(pastries; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) Antacids IT Antioxidants Beverages Chewing gum Confectionery Dentifrices Electrolytes Eucalyptus Food Mint Mouthwashes Peppermint (Mentha piperita) Spearmint (Mentha spicata) Sweetening agents Tobacco smoke (prepns. contq. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) ΙT Mineral elements, biological studies Minerals, biological studies Thiols (organic), biological studies RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) ΙT Radical scavengers RL: BSU (Biological study, unclassified); BIOL (Biological study) (prepns. contq. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) ΙT DNA RL: BSU (Biological study, unclassified); BIOL (Biological study) (protecting agents; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) ΙT Drug delivery systems (tablets; prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) ΙT 50-81-7, Vitamin C, biological studies 58-85-5, Biotin 59-30-3, Folic acid, biological studies 59-43-8, Thiamin, biological studies 59-67-6, Niacin, biological studies 68-19-9, Vitamin B12 79-83-4, Pantothenic acid 83-88-5, Riboflavin , biological studies 1406-16-2, Vitamin d 1406-18-4, Vitamin E 7235-40-7, 7439-89-6, Iron, biological studies Beta carotene 7439-96-5, Manganese, biological studies 7440-50-8, Copper, biological studies 7440-66-6 , Zinc, biological studies 7440-70-2, Calcium , biological studies 7553-56-2, Iodine, biological studies 7782-49-2, Selenium, biological studies 8059-24-3, Vitamin b6 11103-57-4, Vitamin a RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (prepns. contg. vitamins, minerals and antioxidants for treating or prophylaxis of smoking related diseases) 89-78-1, Menthol ΙT 76-22-2, Camphor RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(prepns. contg. vitamins, minerals and antioxidants for treating or

prophylaxis of smoking related diseases)

```
ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2002 ACS
L62
     1998:196339 HCAPLUS
ΑN
DN
     128:196694
     Formulation of multivitamin compositions based on nutritional status of
TI
     Chinese populations
     Shen, Jiaxiang; Liu, Dongsheng
ΙN
     Jicai Pharmaceutical Inst., Beijing, Peop. Rep. China
PΑ
     Faming Zhuanli Shenqing Gongkai Shuomingshu, 34 pp.
SO
     CODEN: CNXXEV
\mathsf{D}\mathbf{T}
     Patent
LA
     Chinese
IC
     ICM A61K033-24
CC
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 1, 18
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO. DATE
     ______
                                           _____
     CN 1141170 A 19970129
CN 1087171 B 20020710
                                           CN 1996-104737 19960424 <--
PΙ
ΑB
     The title multivitamin compns. [tablets] suitable for daily intake by
     Chinese adults contain vitamin A 2000-3000, .
     beta.-carotene 700-1300, vitamin D
     300-500 IU, vitamin E 7-13 mg, vitamin K1
     15-35 .mu.g, vitamin B1 0.8-1.6, vitamin
     B2 0.8-1.6, vitamin B6 1-3 mg,
     vitamin B12 4-8, biotin 20-40, folic
     acid 150-250 .mu.g, nicotinamide 8-16, pantothenic
     acid 6-14, vitamin C 40-80, calcium
     300-500 mg, Cr 50-150 .mu.g, Cu 1-3
     mg, F 400-600 .mu.g, Fe 12-24 mg, I 100-200
     .mu.g, K 30-50, Mg 50-150, Mn 2-3 mg,
     Mo 20-30 .mu.g, P 40-60 mg, Se 40-60 .mu.g,
     Zn 10-20 and taurine 8-12 mg. Formulations for infants,
     children, elderly, and pregnant or breast-feeding women also are
     presented.
ST
     multivitamin Chinese nutritional status; tablet multivitamin mineral trace
     element; syrup multivitamin mineral trace element
ΙT
     Aging, animal
        (adults; formulation of multivitamin compns. based on nutritional
        status of Chinese populations)
     Feeding techniques
ΙT
        (breast; formulation of multivitamin compns. based on nutritional
        status of Chinese populations)
     Development, mammalian postnatal
ΙT
        (child; formulation of multivitamin compns. based on nutritional status
        of Chinese populations)
ΙT
     Drug delivery systems
        (drops; formulation of multivitamin compns. based on nutritional status
        of Chinese populations)
ΙT
     Aging, animal
        (elderly; formulation of multivitamin compns. based on nutritional
        status of Chinese populations)
ΙT
     Nutrition, animal
     Pregnancy
        (formulation of multivitamin compns. based on nutritional status of
        Chinese populations)
     Minerals, biological studies
ΙT
     Trace elements, biological studies
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (formulation of multivitamin compns. based on nutritional status of
        Chinese populations)
```

```
ΙT
     Development, mammalian postnatal
        (infant; formulation of multivitamin compns. based on nutritional
        status of Chinese populations)
IT
     Vitamins
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (multi-; formulation of multivitamin compns. based on nutritional
        status of Chinese populations)
ΙT
     Drug delivery systems
        (syrups; formulation of multivitamin compns. based on nutritional
        status of Chinese populations)
ΙT
     Drug delivery systems
        (tablets; formulation of multivitamin compns. based on nutritional
        status of Chinese populations)
ΙT
     Sex
        (women; formulation of multivitamin compns. based on nutritional status
        of Chinese populations)
     50-81-7, Vitamin C, biological studies
IT
     58-85-5, Biotin 59-30-3, Folic
     acid, biological studies 59-43-8, Vitamin
     B1, biological studies 68-19-9, Vitamin
     B12 79-83-4, Pantothenic acid
     83-88-5, Vitamin B2, biological studies
                              107-35-7, Taurine 1406-16-2,
     98-92-0, Nicotinamide
     Vitamin D 1406-18-4, Vitamin
     E 7235-40-7, .beta.-Carotene
     7439-89-6, Iron, biological studies 7439-95-4, Magnesium
     , biological studies 7439-96-5, Manganese, biological
     studies 7439-98-7, Molybdenum, biological studies
     7440-09-7, Potassium, biological studies 7440-47-3,
     Chromium, biological studies 7440-50-8, Copper
     , biological studies 7440-66-6, Zinc, biological
     studies 7440-70-2, Calcium, biological studies
                                               7723-14-0,
     7553-56-2, Iodine, biological studies
     Phosphorus, biological studies
                                       7782-41-4, Fluorine, biological studies
     7782-49-2, Selenium, biological studies
     8059-24-3, Vitamin B6 11103-57-4,
                 11104-38-4, Vitamin K1
     Vitamin A
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (formulation of multivitamin compns. based on nutritional status of
        Chinese populations)
L62 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2002 ACS
     1996:147815 HCAPLUS
ΑN
     124:185579
DN
ΤI
     Vitamin/nutrient dosage regimentation
     Paradissis, George N.; Levinson, R. Saul; Kirschner, Mitchell I.;
IN
     Hermelin, Marc S.
PA
     KV Pharmaceutical Co., USA
     PCT Int. Appl., 24 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
     ICM A61K009-24
TC
     63-6 (Pharmaceuticals)
CC
     Section cross-reference(s): 17
FAN.CNT 1
                       KIND DATE
                                             APPLICATION NO.
     PATENT NO.
                             _____
                                             -----
                      A1 19951228
                                             WO 1995-US7734 19950619 <--
PΙ
     WO 9535099
         W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA,
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UZ, VN

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RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
             LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
             SN, TD, TG
     AU 9527764
                            19960115
                                           AU 1995-27764
                                                            19950619 <--
                       A1
PRAI US 1994-262516
                            19940620
                                      <--
     US 1995-474070
                            19950607
                                      <--
    WO 1995-US7734
                            19950619
                                     <--
     The efficacy of vitamins and other nutritional agents in treating and
AΒ
     preventing various disease states is improved by administering
     therapeutically effective levels of these agents on a substantially
     continuous, 24-h basis. The concn. of lipid peroxides formed by the
     autoxidn. of lipids, and the concn. of oxygen-free radicals, are reduced
    by continuously administering antioxidant agents. The regeneration of
     nerve tissues is improved by continuously administering at least one
    pharmaceutically-acceptable B complex vitamin.
     vitamin nutrient regimentation; lipid peroxide vitamin nutrient
ST
     regimentation
IT
    Antioxidants
        (vitamin/nutrient dosage regimentation)
ΙT
     Thiols, biological studies
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (vitamin/nutrient dosage regimentation)
ΙT
    Mineral elements
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (metals, vitamin/nutrient dosage regimentation)
ΙT
    Lipids, biological studies
    RL: ADV (Adverse effect, including toxicity); BSU (Biological study,
     unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM
     (Formation, nonpreparative)
        (peroxides, vitamin/nutrient dosage regimentation)
ΙT
     7782-44-7D, Oxygen, radicals
    RL: ADV (Adverse effect, including toxicity); BSU (Biological study,
     unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM
     (Formation, nonpreparative)
        (vitamin/nutrient dosage regimentation)
ΤΤ
     50-81-7, Vitamin C, biological studies
    58-85-5, Biotin 59-30-3, Folic
    acid, biological studies 59-43-8, Vitamin
    B1, biological studies 65-23-6, Pyridoxine
                                                    67-97-0,
                                       70-18-8,
    Vitamin D3 68-19-9, Vitamin B12
    Glutathione, biological studies 79-83-4, Pantothenic
     acid 83-88-5, Riboflavin, biological studies
     98-92-0, Niacinamide 502-65-8, Lycopene
                                  7439-89-6, Iron,
    7235-40-7, .beta.-Carotene
    biological studies 7439-95-4, Magnesium, biological
     studies 7439-96-5, Manganese, biological studies
    7439-98-7, Molybdenum, biological studies
    7440-47-3, Chromium, biological studies
    7440-50-8, Copper, biological studies 7440-66-6
     , Zinc, biological studies 7782-49-2, Selenium
      biological studies 8059-24-3, Vitamin B6
    11103-57-4, Vitamin A
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (vitamin/nutrient dosage regimentation)
L62 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2002 ACS
ΑN
    1995:561568 HCAPLUS
DN
    122:299067
TΙ
    Geriatric composition containing ginseng extract
PΑ
    Schleicher, Peter, Germany
SO
    Ger. Offen., 5 pp.
```

CODEN: GWXXBX

```
DT
     Patent
LΆ
     German
IC
     ICM A61K035-78
     63-4 (Pharmaceuticals)
CC
FAN.CNT 1
                                          APPLICATION NO. DATE
     PATENT NO.
                    KIND DATE
     _____
                                           -----
                                                            _____
                            19950420
     DE 4335454 A1
                                           DE 1993-4335454 19931019 <--
ΡI
     A geriatric compn. with immunostimulating, antiinflammatory, and antitumor
AB
     activity contains Siberian ginseng, Korean ginseng, L-carnitine tartrate,
     and a mixt. of vitamins and trace elements. Thus, a preferred compn. contained Siberian ginseng concd. ext. 100, Korean ginseng concd. ext.
     100, L-carnitine tartrate 368, coenzyme Q10 12, .
     beta.-carotene 15, vitamin E 50,
     vitamin C 100, vitamin B1 1.5,
     vitamin B2 1.8, vitamin B6 2,
     nicotinamide 20, pantothenic acid 10, Fe 20,
     Zn 15, Cu 2, Ca 130, Mg 30, P 100,
     Mn 2.5, K 15 mg, vitamin D 300 IU,
     vitamin B12 3, folic acid 400,
     biotin 40, vitamin K 30, Se 50,
    Mo 15, and Cr 15 .mu.g.
     geriatric compn ginseng carnitine vitamin
ST
ΙT
     Senescence
        (diseases; geriatric compn. contg. ginseng ext.)
     Acanthopanax senticosus
TΤ
     Immunostimulants
     Inflammation inhibitors
     Neoplasm inhibitors
        (geriatric compn. contg. ginseng ext.)
     Trace elements, biological studies
ΙT
     Vitamins
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (geriatric compn. contg. ginseng ext.)
ΙT
     Ginseng
        (P. pseudoginseng, ext.; geriatric compn. contg. ginseng ext.)
     50-81-7, Vitamin C, biological studies
TT
     58-85-5, Biotin 59-30-3, Folic
     acid, biological studies 59-43-8, Vitamin
     B1, biological studies 67-97-0, Vitamin D3 68-19-9,
     Vitamin B12 79-83-4, Pantothenic
     acid 83-88-5, Vitamin B2, biological
               98-92-0, Nicotinamide 303-98-0, Coenzyme
     studies
     Q10 1406-16-2, Vitamin D
     1406-18-4, Vitamin E 7235-40-7,
     .beta. Carotene 7439-89-6, Iron, biological studies
     7439-95-4, Magnesium, biological studies
     7439-96-5, Manganese, biological studies
     7439-98-7, Molybdenum, biological studies
     Potassium, biological studies 7440-47-3, Chromium,
     biological studies 7440-50-8, Copper, biological
     studies 7440-66-6, Zinc, biological studies
     7440-70-2, Calcium, biological studies
                                              7723-14-0,
     Phosphorus, biological studies 7782-49-2, Selenium,
     biological studies 8059-24-3, Vitamin B6
     12001-79-5, Viţamin K 162041-44-3,
     biological studies
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological
     study); USES (Uses)
        (geriatric compn. contg. ginseng ext.)
```

```
ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
L2
RN
      59-67-6 REGISTRY
      3-Pyridinecarboxylic acid (9CI)
CN
                                          (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Nicotinic acid (7CI, 8CI)
OTHER NAMES:
      β-Pyridinecarboxylic acid
CN
CN
      3-Carboxylpyridine
CN
      3-Carboxypyridine
CN
      3-Pyridylcarboxylic acid
CN
      Akotin
CN
      Apelagrin
CN
      Daskil
CN
      Efacin
CN
      Enduracin
CN
      Linic
CN
     Niac
CN
     Niacin
CN
     Niacor
CN
     Niaspan
CN
     Nicacid
CN
     Nicangin
CN
     Nico-Span
CN
     Nicobid
CN
     Nicodelmine
CN
     Nicolar
CN
     Niconacid
CN
     Nicosan 3
CN
     Nicotinipca
CN
     Nicyl
CN
     NSC 169454
CN
     Nyclin
CN
     Pellagrin
     Pelonin
CN
CN
     Slo-niacin
CN
     SR 4390
CN
     Vitamin B5
CN
     Wampocap
     3D CONCORD
FS
     123574-58-3
DR
     C6 H5 N O2
MF
CI
     COM
LC
     STN Files:
                    ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*,
        BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
       CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
       CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, RTECS*,
        SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL,
        VETU, VTB
          (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**, WHO
          (**Enter CHEMLIST File for up-to-date regulatory information)
```

CO2H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14570 REFERENCES IN FILE CA (1907 TO DATE)
557 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14582 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

```
ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
L1
RN
     98-92-0 REGISTRY
     3-Pyridinecarboxamide (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
     Nicotinamide (8CI)
OTHER NAMES:
     β-Pyridinecarboxamide
CN
     3-(Aminocarbonyl)pyridine
CN
     3-Amidopyridine
CN
CN
     3-Carbamoylpyridine
     3-Pyridinecarboxylic acid amide
CN
CN
     Aminicotin
CN
     Benicot
CN
     Delonin Amide
CN
     Dipegyl
CN
     m-(Aminocarbonyl)pyridine
CN
CN
     Niacinamide
CN
     Niavit PP
CN
     Nicamina
     Nicamindon
CN
CN
     Nicasir
CN
     Nicobion
CN
     Nicofort
CN
     Nicosan 2
     Nicosylamide
CN
     Nicotilamide
CN
CN
     Nicotine acid amide
     Nicotinic acid amide
CN
CN
     Nicotinic amide
CN
     Nicotylamide
     Nicovit
CN
     Nicovitina
CN
     Nictoamide
CN
CN
     Niocinamide
CN
     Niozymin
     NSC 13128
CN
     NSC 27452
CN
CN
     Papulex
     Pelmin
CN
CN
     Pelmine
CN
     Pelonin amide
CN
     Vi-Nicotyl
CN
     Vitamin B
CN
     Vitamin B3
FS
     3D CONCORD
     123574-63-0, 37321-14-5, 78731-47-2
DR
MF
     C6 H6 N2 O
CI
     COM
                   ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*,
LC
     STN Files:
       BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
       CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT,
       NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USAN,
       USPAT2, USPATFULL, VTB
          (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**, WHO
          (**Enter CHEMLIST File for up-to-date regulatory information)
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8154 REFERENCES IN FILE CA (1907 TO DATE)
276 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8161 REFERENCES IN FILE CAPLUS (1907 TO DATE)
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

```
L10 ANSWER 1 OF 1 USPATFULL
AN
       96:1240 USPATFULL
       Composition comprising caffeine chromium and fructose
TI
       for weight control and use thereof
IN
       Allen, Ann de Wees T., 2831 Gallows Rd., Ste. 206, Falls Church, VA,
       United States 22042
                               19960102
PΙ
       US 5480657
                                                                    <--
       US 1993-141604
                              19931027 (8)
AΙ
       Utility
DT
      Granted
FS
EXNAM Primary Examiner: Criares, T. J.
      Burns, Doane, Swecker & Mathis
LREP
CLMN
      Number of Claims: 9
ECL
       Exemplary Claim: 1
DRWN
      No Drawings
LN.CNT 535
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       Composition comprising caffeine chromium and fructose
TI
       for weight control and use thereof
PΙ
       US 5480657
                               19960102
       A composition for the prevention or treatment of weight gain, e.g.,
AB
       obesity, said composition comprising caffeine, fructose and
       chromium in an effective amount to prevent or treat weight loss.
      Also disclosed is a method for the prevention or treatment.
            . it is also an object of the present invention to provide a
SUMM
       composition useful for weight control which comprises caffeine,
       chromium, and fruit sugar. Preferably, the composition comprises
       caffeine, niacin-bound chromium, and fruit sugar.
SUMM
            . factors result in successful weight control: thermogenesis; low
      qlycemia; decreased appetite control; increased energy via proper blood
       sugar balance; and chromium replenishment.
               can induce headaches or "the jitters", e g., a nervous
SUMM
       sensation. The composition of the present invention thus also comprises
       fructose as a buffer or stabilizer to reduce the adverse effects
       of caffeine while retaining the energy enhancement properties of
       caffeine.
      Fructose is also present in the novel composition of the
SUMM
       claimed invention. Fructose is commonly called "fruit sugar"
      because of its widespread occurrence free in fruits. Fructose
       may exist as either of two stereoisomers, designated as either D-
       fructose or L-fructose. The L-fructose form
       is preferred in the practice of the present invention. L-
       fructose is a ketohexose and its molecular formula is C.sub.6
       H.sub.12 O.sub.6. Its structural formula may be shown in the following.
SUMM
      Fructose is used to supply energy. Fructose supplies
       relatively consistent energy levels with minimal or no stimulation of
       insulin production. Sugar (sucrose), honey, glucose and many common
       carbohydrates supply energy but they also stimulate insulin production.
       This causes rebound-tiredness and fat gains. By contrast,
       fructose which is used in the present composition remains in the
       intestinal tract for a longer period of time than regular.
SUMM
               having a ketone functional group are ketoses. A sugar having
       six carbon atoms is called a hexose. Common hexoses include
       fructose (a ketose) and glucose (an aldose). A disaccharide
       consists of two sugars joined by an O-qlycosidic bond. Three highly
                    . maltose. Sucrose (common table sugar) is obtained from
       cane or beet. The anomeric carbon atoms of a glucose and a
       fructose residue are in an .alpha.-glycosidic linkage in
       sucrose. Lactose, the disaccharide of milk, consists of galactose joined
       to glucose by.
SUMM
         . . the urge for more sweets and carbohydrates, but also stimulate
       the pancreas to secrete 300% more insulin than, for example,
```

fructose.

- SUMM . . . glucose polymers. Glucose is a crystalline sugar also found in fruits and honey. However, glucose releases 500% more insulin than fructose.
- Fructose, which is used in the practice of the present invention, is a crystalline sugar found in fruits, fruit sugar, levulose. . . an enzyme responsible for clearing the milky plasma of alimentary hyperlipemia by hydrolyzing the fats. Unlike sucrose, honey and glucose, fructose holds the lowest glycemic index known. Therefore, it does not result in an imbalance of insulin levels, cause energy and. . .
- SUMM Although both **fructose** and glucose co-exist in nature, they elicit different effects in the body. To take advantage of the different biochemical responses of **fructose** and glucose, the two monosaccharides must be separated from the fruit in which they occur. This technique is well known. . .
- SUMM For example, an orange contains 50% sucrose, 30% fructose and 20% glucose. After fructose is separated from the other sugars in the orange, it has been found by the present inventor to be an ideal sweetener and carbohydrate. Currently, however, in most instances after the separation is complete, fructose is converted into high fructose corn syrup before being added to food products. This process results in a finished product which is 40% fructose and 60% glucose. The use of high fructose corn syrup thus does not result in the advantages of the present invention since its glycemic response is equal to. . .
- Further to the above-described benefits of using fructose instead of other sugars, fructose is an excellent fat-loss carbohydrate. In a controlled study, for example, it was found by the present inventor that people ingesting fructose as opposed to glucose could eat without caloric restriction. The fructose group chose to eat almost 500 calories per day less than the glucose group. This translates into a loss of. . .
- The role of **fructose** as a thermogenic agent, a blood sugar balancer, and an ergogenic enhancer has thus been discovered by the present inventor. Such roles may be defined in terms of efficacy. In terms of thermogenesis, **fructose** is twice as effective as sucrose for burning extra calories. Diet-Induced-Thermogenesis is one of the dominant pathways used by the body to eliminate excess calories. In the treatment of blood sugar disorders, **fructose** is frequently prescribed by physicians in controlling reactive hypoglycemia and diabetes. As an ergogenic tool, **fructose** increases endurance and stamina in athletes and may be used to overcome a major hurdle in athletic performance. For example, . .
- SUMM The present inventor has surprisingly found, however, that simply ingesting fructose as opposed to glucose does not result in an increase in weight loss. In the study performed by the present inventor three control groups were used. The first group consumed fructose, the second group consumed sucrose, while the third group consumed plain water. Surprisingly, the water-drinking group craved and ate more food than did the fructose consuming group.
- Too much sugar of any type, even **fructose**, is capable of being converted to fat. **Fructose**, however, has the least proclivity towards fat storage as compared to any other sugar or carbohydrate known. Excess carbohydrate consumption. . . in serum lipids associated with excess sugar/carbohydrate consumption can be greatly reduced, if not eliminated, by adding specific components to **fructose** when it is in its raw crystalline form.
- SUMM The amount of **fructose** in the composition of the present invention is an effective amount to achieve the desired effect of the present invention, . . .
- SUMM . . . their direct influence on weight control, but rather as complements to or synergists for other compounds which stimulate weight

control. Chromium is one such compound. Chromium, which is present in the novel composition of the present invention, has been found to be a beneficial supplement for athletes. For example, it has been speculated that chromium losses are twice as high on a workout day versus a non-workout day. Chromium has thus been added to the fructose formulations of the present invention. Chromium, like iron, copper and zinc, is one of 16 essential SUMM trace minerals the human body needs to function properly. For athletes, for example, chromium may be the most important essential trace metal. In its biologically active form, chromium helps insulin metabolize fat, convert protein to muscle and convert sugar into energy in vivo. In fact, chromium-activated insulin increases the amount of glucose available for energy production nearly twenty-fold. By increasing the efficiency of glucose utilization, chromium expands the body's energy-producing capacity beyond the normal limits. For example, during exercise the point at which muscle burn occurs can be greatly extended by increasing the amount of chromium in the blood-stream. In addition, chromium is the "master" nutrient for controlling SUMM blood sugar. Chromium in vivo helps overcome sugar cravings, a problem many people experience, for example, due to diets high in sugars . . the highs and lows of a high carbohydrate diet, promoting a steady stream of available glucose for continuous, prolonged energy. Chromium also acts to control blood lipids, lowering harmful LDL cholesterol and increasing beneficial HDL cholesterol. Chromium deficiency results in various adverse effects in SUMM humans. For example, a lack of sufficient amount of chromium can impair insulin function, inhibit muscle development and decrease energy production. In addition, such a deficiency can lead to type. and even heart disease. U.S. government studies show that the diets of nine out of ten Americans are deficient in chromium, containing less than the minimum safe and adequate amount established by the National Research Council (50-200 micrograms/day). This problem is. elderly. For example, in athletes, their nutritional requirements are higher due to increased energy demands due to the fact that chromium is rapidly depleted during workouts. For example, following a strenuous workout, chromium loss has been shown to increase five times the normal rate. Moreover, a consumption of sugars and refined carbohydrates, a major part of many athletes' diets, can increase chromium loss up to 300%. Although chromium naturally occurs in many foods, processing removes up to 80% of that chromium. Still further, less than 2% of the chromium from most food sources is actually absorbed. For dieters who have restricted their calories and reduced their nutritional intake, even less chromium is actually absorbed. Thus, it is difficult to obtain sufficient chromium even if foods high in chromium content are eaten. Foods rich in biologically active chromium, which is the form SUMM that activates insulin action, are Brewer's yeast, black pepper, liver and wheat germ. However, even Brewer's yeast, the richest known source of biologically active chromium in nature, contains only a few micrograms of chromium per gram, less than 10% of which is in the biologically active form. Higher potencies of biologically active chromium, for example, up to 200 micrograms, are thus desirable. SUMM Niacin-bound chromium has been identified as the biologically active chromium ingredient in Brewer's yeast by Dr. Walter Mertz, former director of the USDA Human Nutrition Research Center and discoverer of biologically active chromium. Niacin-bound chromium is available under the Tradename of CHROMEMATE.RTM.. A description of CHROMEMATE.RTM. may be found in U.S. Pat. Nos. 4,923855, 4,954,492. . . 5,194,615, which patents are hereby incorporated by reference in their entirety. Independent university studies have now found that the oxygen-coordinated

chromium-niacin complex is the most bioactive of other

known **niacin**-bound **chromium**, being over eighteen times more bioactive.

SUMM Chromium has been found to be a beneficial supplement for athletes. For example, it has been speculated that chromium losses are twice as high on a workout day versus a non-workout day. Chromium has thus been added to the fructose formulations of the present invention.

Chromium, in its biologically active form, helps insulin metabolize fat and convert food into energy. Chromium -activated insulin increases the amount of glucose available for energy nearly twenty-fold. This results in optimum energy output. Chromium is also the "master" nutrient for controlling blood sugar which controls sugar cravings. Curbing the cravings for sweets is essential. . if weight loss is the goal. U.S. government studies have shown that nine out of ten Americans are deficient in chromium, which is one reason many Americans are overweight. Chromium was previously available in the food supply; however, processing presently removes up to 80% of the chromium in foods. Since less than 2% of the chromium from most foods is actually absorbed, it is easy to see why the vast majority of people are chromium deficient. Different forms of chromium have been researched by the present inventor. It has been found that the preferred biologically acceptable form is niacin-bound chromium, called chromium polynicotinate.

The strong potentiation of insulin in vitro has been found to depend upon the coordination of nicotinic acid to chromium. This has been shown by the ineffectiveness of other pyridine carboxylic acid derivatives, such as picolinic acid, as ligands. Unlike the niacin isomer picolinic acid, niacin binds with chromium only at either the nitrogen or carboxylic acid position. In addition, chromium nicotinate tends to form positively charged complexes in vivo. Researchers believe that this fact may help explain why chromium nicotinate is absorbed and/or retained better than other chromium complexes. Studies have shown that red blood cells absorb positively charged chromium complexes better than neutral or negatively charged complexes. By comparison, for example, chromium picolinate is a neutral complex, while chromium chloride tends to form neutral or negatively charged complexes in vivo. The preferred chromium nicotinate of the present invention is thus more bioavailable than both chromium picolinate and chromium chloride, both of which are recognized as potentially useful forms of inorganic chromium.

As previously discussed supra, Brewer's yeast typically contains only 2 micrograms chromium per gram of yeast, of which only a fraction is in the biologically active O-coordinated form, and attempts to biosynthetically increase the concentration of glucose tolerance factor chromium in Brewer's yeast have met with limited success. However, any form of chromium including chromium picotinate, chromium chloride and the like are useful in the practice of the present invention. Niacin -bound chromium is preferred in the practice of the present invention.

SUMM The chromium is present in an amount of approximately 5 mcg to 500 mcg per serving. Preferably, the chromium is present in an amount of between about 10 mcg to about 100 mcg per serving, more preferably the chromium is present in an amount of approximately 50 mcg per serving, wherein a serving is approximately six to twelve ounces.

SUMM . . . in the composition of the present invention including sodium, potassium, dietary fiber, calcium, magnesium, vitamin A, vitamin C, thiamine, riboflavin, niacin, iron and the like.

DETD SUGAR

SUMM

SUMM

Sucrose	Positive			
Fructose	Negative			
Glucose	Positive			
Dextrose	Positive			
Corn Syrup	Unacceptable			
Sorbitol	Unacceptable			
Mannitol	Unacceptable			
Xylitol	Positive			
Maltodextrin	Positive			
Glucose Polymers	Positive			
High Fructose Corn Syrup				
	Positive			
Grape Sugar	Positive			
Honey	Positive			
Brown Sugar	Positive			

DETD As can be seen from Table I, the only acceptable sugar which met acceptable guidelines for calorigenicity and insulinogenicity was fructose. Fructose was the only sugar for which no insulin elevation was noted and which was clinically acceptable. The clinical implications of fructose in diabetic and non-diabetic subjects when used as the primary sweetener in foods and liquids can thus be seen. Though some of the noninsulin-requiring. . . (non-pH buffer) to the adrenal-exhaustive responses to caffeine. Nor did they maintain blood sugar levels or provide energy as did fructose. The sorbitol, mannitol and xylitol were thus designated as unacceptable for a composition to defray or satiate hunger, provide energy. . .

DETD Sodium 1/200 gram Potassium 36 mg Total Carbohydrate 5 g Dietary Fiber (less than 1 gram) Fruit Sugar 5 q Calcium 6 mg Magnesium 5 mg Niacin-bound chromium 100 mcg Caffeine 65 mg

CLM What is claimed is:

- . or treatment of weight gain, said composition comprising approximately 30 to 150 mg of caffeine, approximately 2 to 20 grams fructose and approximately 5 mcg to 500 mcg chromium, per serving.
- 2. The composition of claim 1 wherein the amount of caffeine is about 65 mg, the amount of **fructose** is about 5 grams and the amount of **chromium** is about 50 mcg per serving.
- 8. A composition comprising about 65 mg caffeine, about 5 grams ${\it fructose}$ and about 50 mcg ${\it chromium}$.
- 9. An instant coffee composition comprising about 65 mg caffeine, about 5 grams fructose and about 50 mcg chromium.

```
L10 ANSWER 1 OF 1 USPATFULL
       96:1240 USPATFULL
AN
       Composition comprising caffeine chromium and fructose
ΤТ
       for weight control and use thereof
       Allen, Ann de Wees T., 2831 Gallows Rd., Ste. 206, Falls Church, VA,
IN
       United States 22042
                               19960102
       US 5480657
                                                                    <--
PΤ
       US 1993-141604
                               19931027 (8)
AΙ
DT
       Utility
      Granted
FS
EXNAM Primary Examiner: Criares, T. J.
      Burns, Doane, Swecker & Mathis
LREP
      Number of Claims: 9
CLMN
ECL
      Exemplary Claim: 1
DRWN
      No Drawings
LN.CNT 535
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
TΤ
       Composition comprising caffeine chromium and fructose
       for weight control and use thereof
PΙ
       US 5480657
                               19960102
       A composition for the prevention or treatment of weight gain, e.g.,
AB
       obesity, said composition comprising caffeine, fructose and
       chromium in an effective amount to prevent or treat weight loss.
      Also disclosed is a method for the prevention or treatment.
SUMM
            . it is also an object of the present invention to provide a
       composition useful for weight control which comprises caffeine,
       chromium, and fruit sugar. Preferably, the composition comprises
      caffeine, niacin-bound chromium, and fruit sugar.
SUMM
            . factors result in successful weight control: thermogenesis; low
       glycemia; decreased appetite control; increased energy via proper blood
       sugar balance; and chromium replenishment.
            . can induce headaches or "the jitters", e q., a nervous
SUMM
       sensation. The composition of the present invention thus also comprises
       fructose as a buffer or stabilizer to reduce the adverse effects
       of caffeine while retaining the energy enhancement properties of
      caffeine.
      Fructose is also present in the novel composition of the
SUMM
      claimed invention. Fructose is commonly called "fruit sugar"
      because of its widespread occurrence free in fruits. Fructose
      may exist as either of two stereoisomers, designated as either D-
       fructose or L-fructose. The L-fructose form
       is preferred in the practice of the present invention. L-
       fructose is a ketohexose and its molecular formula is C.sub.6
      H.sub.12 O.sub.6. Its structural formula may be shown in the following.
SUMM
      Fructose is used to supply energy. Fructose supplies
      relatively consistent energy levels with minimal or no stimulation of
       insulin production. Sugar (sucrose), honey, glucose and many common
       carbohydrates supply energy but they also stimulate insulin production.
       This causes rebound-tiredness and fat gains. By contrast,
       fructose which is used in the present composition remains in the
       intestinal tract for a longer period of time than regular.
SUMM
               having a ketone functional group are ketoses. A sugar having
       six carbon atoms is called a hexose. Common hexoses include
       fructose (a ketose) and glucose (an aldose). A disaccharide
       consists of two sugars joined by an O-glycosidic bond. Three highly
                    . maltose. Sucrose (common table sugar) is obtained from
       cane or beet. The anomeric carbon atoms of a glucose and a
       fructose residue are in an .alpha.-glycosidic linkage in
       sucrose. Lactose, the disaccharide of milk, consists of galactose joined
       to glucose by.
SUMM
         . . the urge for more sweets and carbohydrates, but also stimulate
       the pancreas to secrete 300% more insulin than, for example,
```

fructose.

- SUMM . . . glucose polymers. Glucose is a crystalline sugar also found in fruits and honey. However, glucose releases 500% more insulin than fructose.
- Fructose, which is used in the practice of the present invention, is a crystalline sugar found in fruits, fruit sugar, levulose. . . an enzyme responsible for clearing the milky plasma of alimentary hyperlipemia by hydrolyzing the fats. Unlike sucrose, honey and glucose, fructose holds the lowest glycemic index known. Therefore, it does not result in an imbalance of insulin levels, cause energy and. . .
- SUMM Although both **fructose** and glucose co-exist in nature, they elicit different effects in the body. To take advantage of the different biochemical responses of **fructose** and glucose, the two monosaccharides must be separated from the fruit in which they occur. This technique is well known. . .
- For example, an orange contains 50% sucrose, 30% fructose and 20% glucose. After fructose is separated from the other sugars in the orange, it has been found by the present inventor to be an ideal sweetener and carbohydrate. Currently, however, in most instances after the separation is complete, fructose is converted into high fructose corn syrup before being added to food products. This process results in a finished product which is 40% fructose and 60% glucose. The use of high fructose corn syrup thus does not result in the advantages of the present invention since its glycemic response is equal to. . .
- Further to the above-described benefits of using fructose instead of other sugars, fructose is an excellent fat-loss carbohydrate. In a controlled study, for example, it was found by the present inventor that people ingesting fructose as opposed to glucose could eat without caloric restriction. The fructose group chose to eat almost 500 calories per day less than the glucose group. This translates into a loss of. . .
- The role of **fructose** as a thermogenic agent, a blood sugar balancer, and an ergogenic enhancer has thus been discovered by the present inventor. Such roles may be defined in terms of efficacy. In terms of thermogenesis, **fructose** is twice as effective as sucrose for burning extra calories. Diet-Induced-Thermogenesis is one of the dominant pathways used by the body to eliminate excess calories. In the treatment of blood sugar disorders, **fructose** is frequently prescribed by physicians in controlling reactive hypoglycemia and diabetes. As an ergogenic tool, **fructose** increases endurance and stamina in athletes and may be used to overcome a major hurdle in athletic performance. For example, . . .
- SUMM The present inventor has surprisingly found, however, that simply ingesting fructose as opposed to glucose does not result in an increase in weight loss. In the study performed by the present inventor three control groups were used. The first group consumed fructose, the second group consumed sucrose, while the third group consumed plain water. Surprisingly, the water-drinking group craved and ate more food than did the fructose consuming group.
- SUMM Too much sugar of any type, even **fructose**, is capable of being converted to fat. **Fructose**, however, has the least proclivity towards fat storage as compared to any other sugar or carbohydrate known. Excess carbohydrate consumption. . . in serum lipids associated with excess sugar/carbohydrate consumption can be greatly reduced, if not eliminated, by adding specific components to **fructose** when it is in its raw crystalline form.
- SUMM The amount of **fructose** in the composition of the present invention is an effective amount to achieve the desired effect of the present invention,. . .
- SUMM . . . their direct influence on weight control, but rather as complements to or synergists for other compounds which stimulate weight

control. Chromium is one such compound. Chromium, which is present in the novel composition of the present invention, has been found to be a beneficial supplement for athletes. For example, it has been speculated that chromium losses are twice as high on a workout day versus a non-workout day. Chromium has thus been added to the fructose formulations of the present invention. Chromium, like iron, copper and zinc, is one of 16 essential SUMM trace minerals the human body needs to function properly. For athletes, for example, chromium may be the most important essential trace metal. In its biologically active form, chromium helps insulin metabolize fat, convert protein to muscle and convert sugar into energy in vivo. In fact, chromium-activated insulin increases the amount of glucose available for energy production nearly twenty-fold. By increasing the efficiency of glucose utilization, chromium expands the body's energy-producing capacity beyond the normal limits. For example, during exercise the point at which muscle burn occurs can be greatly extended by increasing the amount of chromium in the blood-stream. In addition, chromium is the "master" nutrient for controlling SUMM blood sugar. Chromium in vivo helps overcome sugar cravings, a problem many people experience, for example, due to diets high in sugars . . the highs and lows of a high carbohydrate diet, promoting a steady stream of available glucose for continuous, prolonged energy. Chromium also acts to control blood lipids, lowering harmful LDL cholesterol and increasing beneficial HDL cholesterol. SUMM Chromium deficiency results in various adverse effects in humans. For example, a lack of sufficient amount of chromium can impair insulin function, inhibit muscle development and decrease energy production. In addition, such a deficiency can lead to type. and even heart disease. U.S. government studies show that the diets of nine out of ten Americans are deficient in chromium, containing less than the minimum safe and adequate amount established by the National Research Council (50-200 micrograms/day). This problem is. elderly. For example, in athletes, their nutritional requirements are higher due to increased energy demands due to the fact that chromium is rapidly depleted during workouts. For example, following a strenuous workout, chromium loss has been shown to increase five times the normal rate. Moreover, a consumption of sugars and refined carbohydrates, a major part of many athletes' diets, can increase chromium loss up to 300%. Although chromium naturally occurs in many foods, processing removes up to 80% of that chromium. Still further, less than 2% of the chromium from most food sources is actually absorbed. For dieters who have restricted their calories and reduced their nutritional intake, even less chromium is actually absorbed. Thus, it is difficult to obtain sufficient chromium even if foods high in chromium content are eaten. SUMM Foods rich in biologically active chromium, which is the form that activates insulin action, are Brewer's yeast, black pepper, liver and wheat germ. However, even Brewer's yeast, the richest known source of biologically active chromium in nature, contains only a few micrograms of chromium per gram, less than 10% of which is in the biologically active form. Higher potencies of biologically active chromium, for example, up to 200 micrograms, are thus desirable. SUMM Niacin-bound chromium has been identified as the biologically active chromium ingredient in Brewer's yeast by Dr. Walter Mertz, former director of the USDA Human Nutrition Research Center and discoverer of biologically active chromium. Niacin-bound chromium is available under the Tradename of CHROMEMATE.RTM.. A description of CHROMEMATE.RTM. may be found in . . 5,194,615, which patents are U.S. Pat. Nos. 4,923855, 4,954,492. hereby incorporated by reference in their entirety. Independent

university studies have now found that the oxygen-coordinated

chromium-niacin complex is the most bioactive of other

known **niacin**-bound **chromium**, being over eighteen times more bioactive.

SUMM Chromium has been found to be a beneficial supplement for athletes. For example, it has been speculated that chromium losses are twice as high on a workout day versus a non-workout day. Chromium has thus been added to the fructose formulations of the present invention.

Chromium, in its biologically active form, helps insulin metabolize fat and convert food into energy. Chromium -activated insulin increases the amount of glucose available for energy nearly twenty-fold. This results in optimum energy output. Chromium is also the "master" nutrient for controlling blood sugar which controls sugar cravings. Curbing the cravings for sweets is essential. . . if weight loss is the goal. U.S. government studies have shown that nine out of ten Americans are deficient in chromium, which is one reason many Americans are overweight. Chromium was previously available in the food supply; however, processing presently removes up to 80% of the chromium in foods. Since less than 2% of the chromium from most foods is actually absorbed, it is easy to see why the vast majority of people are chromium deficient. Different forms of chromium have been researched by the present inventor. It has been found that the preferred biologically acceptable form is niacin-bound chromium, called chromium polynicotinate.

The strong potentiation of insulin in vitro has been found to depend upon the coordination of nicotinic acid to chromium. This has been shown by the ineffectiveness of other pyridine carboxylic acid derivatives, such as picolinic acid, as ligands. Unlike the niacin isomer picolinic acid, niacin binds with chromium only at either the nitrogen or carboxylic acid position. In addition, chromium nicotinate tends to form positively charged complexes in vivo. Researchers believe that this fact may help explain why chromium nicotinate is absorbed and/or retained better than other chromium complexes. Studies have shown that red blood cells absorb positively charged chromium complexes better than neutral or negatively charged complexes. By comparison, for example, chromium picolinate is a neutral complex, while chromium chloride tends to form neutral or negatively charged complexes in vivo. The preferred chromium nicotinate of the present invention is thus more bioavailable than both chromium picolinate and chromium chloride, both of which are recognized as potentially useful forms of inorganic chromium.

As previously discussed supra, Brewer's yeast typically contains only 2 micrograms chromium per gram of yeast, of which only a fraction is in the biologically active O-coordinated form, and attempts to biosynthetically increase the concentration of glucose tolerance factor chromium in Brewer's yeast have met with limited success. However, any form of chromium including chromium picotinate, chromium chloride and the like are useful in the practice of the present invention. Niacin -bound chromium is preferred in the practice of the present invention.

SUMM The **chromium** is present in an amount of approximately 5 mcg to 500 mcg per serving. Preferably, the **chromium** is present in an amount of between about 10 mcg to about 100 mcg per serving, more preferably the **chromium** is present in an amount of approximately 50 mcg per serving, wherein a serving is approximately six to twelve ounces.

SUMM . . . in the composition of the present invention including sodium, potassium, dietary fiber, calcium, magnesium, vitamin A, vitamin C, thiamine, riboflavin, niacin, iron and the like.

DETD SUGAR

SUMM

SUMM

Positive Sucrose Fructose Negative Positive Glucose Dextrose Positive Corn Syrup Unacceptable Unacceptable Sorbitol Unacceptable Mannitol Xvlitol Positive Maltodextrin Positive Glucose Polymers Positive High Fructose Corn Syrup Positive Grape Sugar Positive Honey Positive Brown Sugar Positive

 L_{2}/s

As can be seen from Table I, the only acceptable sugar which met acceptable quidelines for calorigenicity and insulinogenicity was fructose. Fructose was the only sugar for which no insulin elevation was noted and which was clinically acceptable. The clinical implications of fructose in diabetic and non-diabetic subjects when used as the primary sweetener in foods and liquids can thus be seen. Though some of the noninsulin-requiring. . . (non-pH buffer) to the adrenal-exhaustive responses to caffeine. Nor did they maintain blood sugar levels or provide energy as did fructose. The sorbitol, mannitol and xylitol were thus designated as unacceptable for a composition to defray or satiate hunger, provide energy,.

DETD Sodium 1/200 gram Potassium 36 mg Total Carbohydrate 5 q Dietary Fiber (less than 1 gram) Fruit Sugar 5 g Calcium 6 mg 5 mg Magnesium

Niacin-bound chromium

100 mcg Caffeine 65 mg

CLM What is claimed is:

- . or treatment of weight gain, said composition comprising approximately 30 to 150 mg of caffeine, approximately 2 to 20 grams fructose and approximately 5 mcg to 500 mcg chromium, per serving.
- 2. The composition of claim 1 wherein the amount of caffeine is about 65 mg, the amount of fructose is about 5 grams and the amount of chromium is about 50 mcg per serving.
- 8. A composition comprising about 65 mg caffeine, about 5 grams fructose and about 50 mcg chromium.
- 9. An instant coffee composition comprising about 65 mg caffeine, about 5 grams fructose and about 50 mcg chromium.

d his

L2

L3

L5

L6

L7

(FILE 'HOME' ENTERED AT 23:32:44 ON 18 MAY 2003)

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CANCERLIT, CAPLUS, CEN, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, EMBAL, EMBASE, ESBIOBASE, IFIPAT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDICONF, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, ...' ENTERED AT 23:34:49 ON 18 MAY 2003

L1 1922 S CHROMIUM (W) PICOLINATE

95 S L1 AND (NIACIN OR NICOTINAMIDE)

76 DUP REM L2 (19 DUPLICATES REMOVED)

L4 32 S L3 AND PD<2000

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CANCERLIT, CAPLUS, CEN, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, EMBAL, EMBASE, ESBIOBASE, IFIPAT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDICONF, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, ...' ENTERED AT 23:44:30 ON 18 MAY 2003

47 S (CHROMIUM (W) PICOLINATE) (P) (NIACIN OR NICOTIAMIDE)

10 S CHROMIUM/AB AND PICOLINATE/AB AND (NIACIN OR NICOTIAMIDE)/AB

4 S US5480657/PN

L8 1 S L7 AND (DIABETIC OR HYPERTENSION)

L9 1 S L8 AND FRUCTOSE

L10 1 S L9 AND (CHROMIUM OR NIACIN)

L11 4 S US6248375/PN

L12 0 S L11 AND (CURCUMIN OR CURCUMINOID)

=>

(FILE 'HOME' ENTERED AT 21:51:11 ON 18 MAY 2003)

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CANCERLIT, CAPLUS, CEN, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, EMBAL, EMBASE, ESBIOBASE, IFIPAT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDICONF, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, ...' ENTERED AT 21:51:23 ON 18 MAY 2003

- L1 1921 S (OMEGA (W) 6 (W) FATTY (W) ACID)
- L2 1228 DUP REM L1 (693 DUPLICATES REMOVED)
- L3 272 S L2 AND OMEGA/AB
 - 141 S L3 AND PD<2000
- L5 4 S L4 AND DIABETIC/AB

FILE 'USPATFULL' ENTERED AT 22:00:47 ON 18 MAY 2003

- 185 S ARACHIDONIC/AB
- L7 8 S L6 AND OMEGA/AB

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CANCERLIT, CAPLUS, CEN, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, EMBAL, EMBASE, ESBIOBASE, IFIPAT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDICONF, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, ...' ENTERED AT 22:05:23 ON 18 MAY 2003

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L8 2300 S (ESSENTIAL (P) FATTY (P) ACID (P) OMEGA )
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- L9 1630 S (ESSENTIAL (P) FATTY (P) ACID (P) OMEGA (P) 6)
- L10 894 S L9 AND PD<2000
- L11 136 S L10 AND ARACHIDONIC/AB
- L12 134 S L11 AND (ESSENTIAL)/AB
- L13 134 S L12 AND FATTY/AB
- L14 132 S L13 AND OMEGA/AB
- L17 1 S L16 AND DIABETIC/AB

L4

L6

```
L3.
     ANSWER 1 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN
     79-83-4 REGISTRY
CN
     \beta-Alanine, N-[(2R)-2,4-dihydroxy-3,3-dimethyl-1-oxobutyl]- (9CI)
                                                                          (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
     \beta-Alanine, N-(2,4-dihydroxy-3,3-dimethyl-1-oxobutyl)-, (R)-
CN
     Pantothenic acid, D- (8CI)
OTHER NAMES:
CN
   (+)-Pantothenic acid
CN
     (D) - (+) -Pantothenic acid
CN
     Chick antidermatitis factor
CN
     D(+)-N-(2,4-Dihydroxy-3,3-dimethylbutyryl)-\beta-alanine
CN
     D-Pantothenic acid
CN
     Pantothenic acid
CN
     Vitamin B3
CN
     Vitamin B5
FS
     STEREOSEARCH
DR
     3563-85-7
MF
     C9 H17 N O5
CI
     COM
LC
     STN Files:
                  ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE,
       HODOC*, HSDB*, IFICDB, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC,
       PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
         (*File contains numerically searchable property data)
     Other Sources:
                      EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)
Absolute stereochemistry. Rotation (+).
                   OH
```

$$HO_2C$$
 H
 R
 OH
 OH
 OH

CN

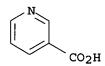
Efacin

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5009 REFERENCES IN FILE CA (1907 TO DATE)
129 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5011 REFERENCES IN FILE CAPLUS (1907 TO DATE)
8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

ANSWER 2 OF 2 REGISTRY L3COPYRIGHT 2004 ACS on STN 59-67-6 REGISTRY RN 3-Pyridinecarboxylic acid (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Nicotinic acid (7CI, 8CI) OTHER NAMES: CN β-Pyridinecarboxylic acid CN3-Carboxylpyridine CN 3-Carboxypyridine CN 3-Pyridylcarboxylic acid CN Akotin CN Apelagrin CN Daskil

```
CN
     Enduracin
CN
     Linic
CN
     Niac
CN
     Niacin
CN
     Niacor
CN
     Niaspan
CN
     Nicacid
CN
     Nicangin
CN
     Nico-Span
     Nicobid
CN
     Nicodelmine
CN
CN
     Nicolar
CN
     Niconacid
CN
     Nicosan 3
     Nicotinipca
CN
CN
     Nicyl
CN
     NSC 169454
     Nyclin
CN
CN
     Pellagrin
CN
     Pelonin
     Slo-niacin
CN
     SR 4390
CN
CN
     Vitamin B5
CN
     Wampocap
FS
     3D CONCORD
DR
     123574-58-3
     C6 H5 N O2
MF
CI
     COM
LC
                 ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*,
       BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
       CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
       CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*,
       HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*,
       MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, RTECS*,
       SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL,
       VETU, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**, WHO
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14570 REFERENCES IN FILE CA (1907 TO DATE)
557 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14582 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

(**Enter CHEMLIST File for up-to-date regulatory information)

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